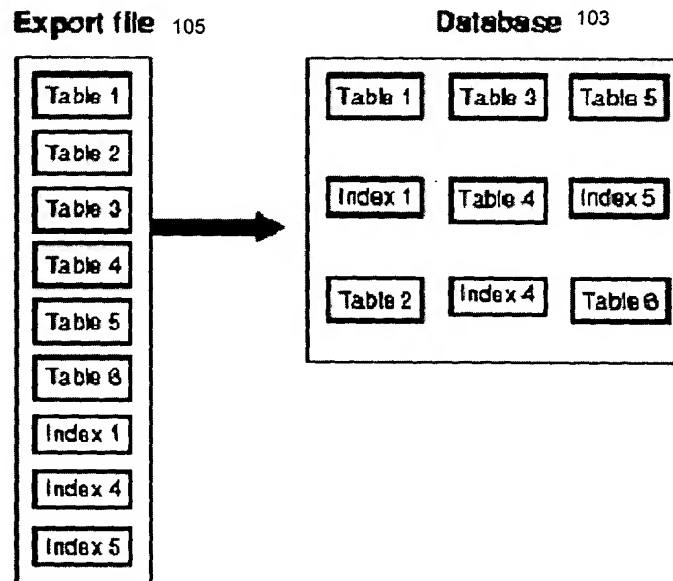


export 101



import 107

Fig. 1 PRIOR ART

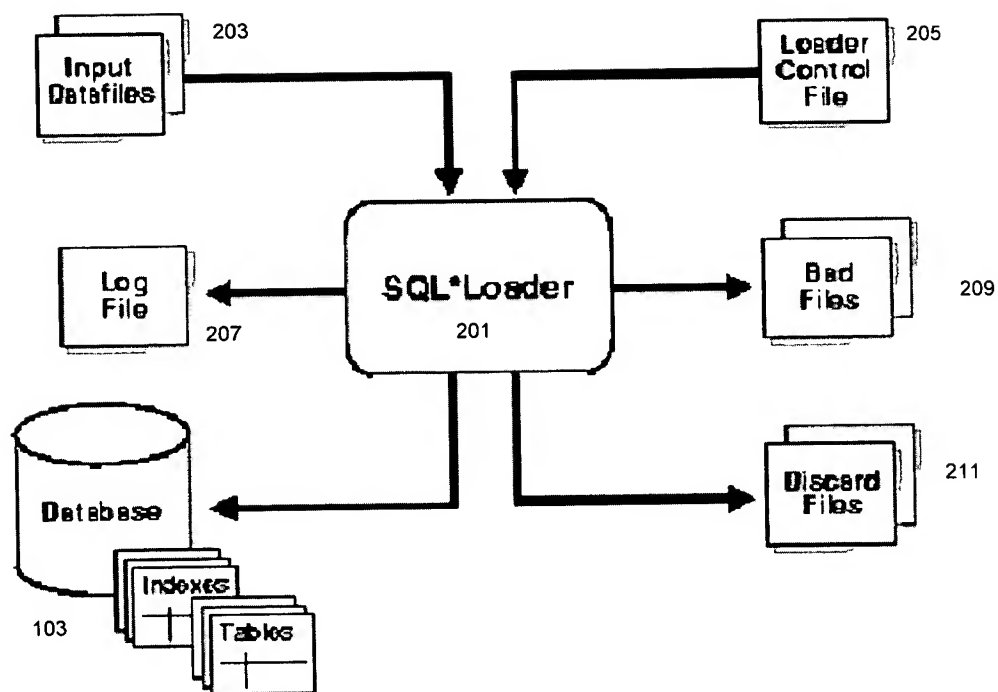


Fig. 2 PRIOR ART

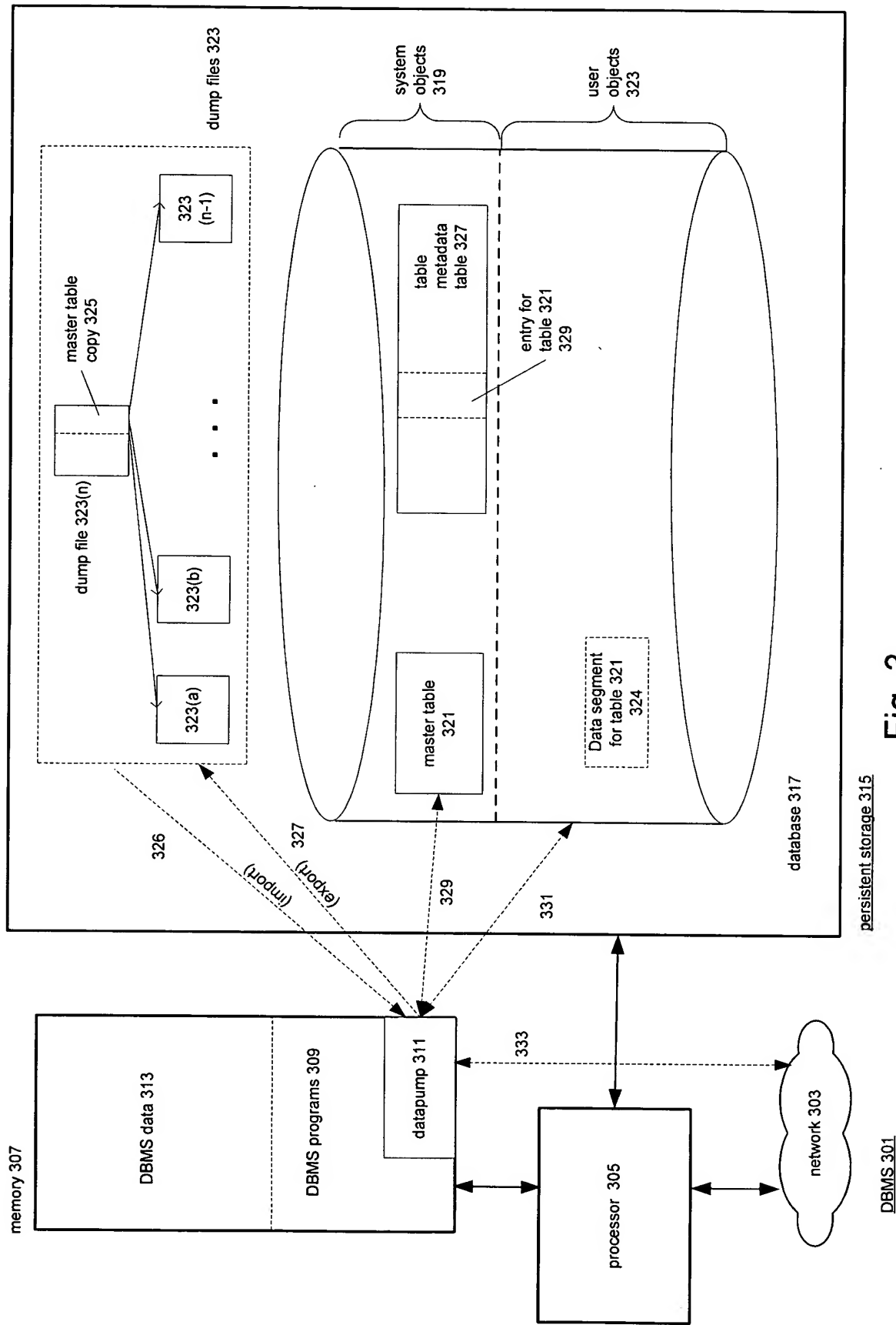


Fig. 3

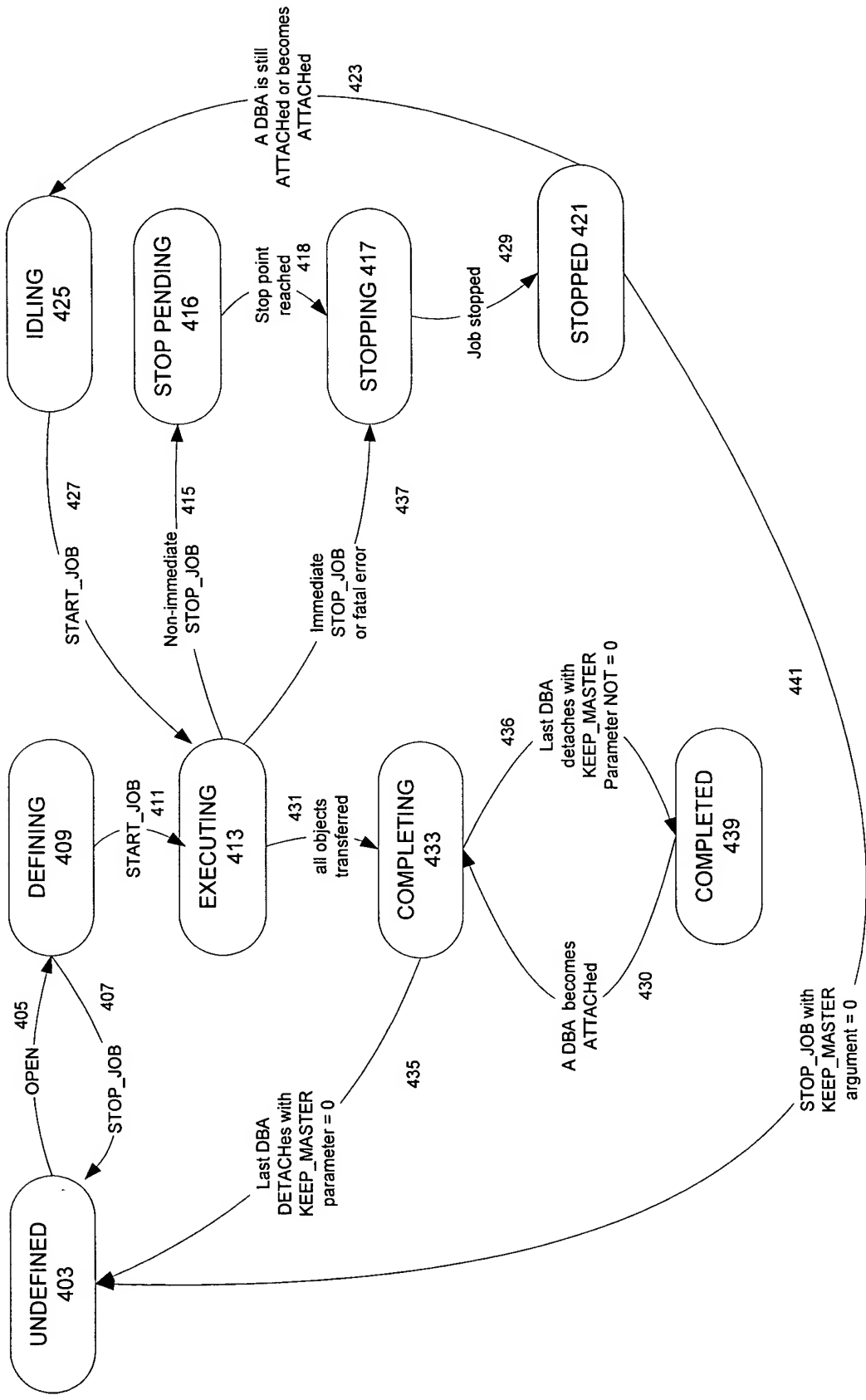


Fig. 4

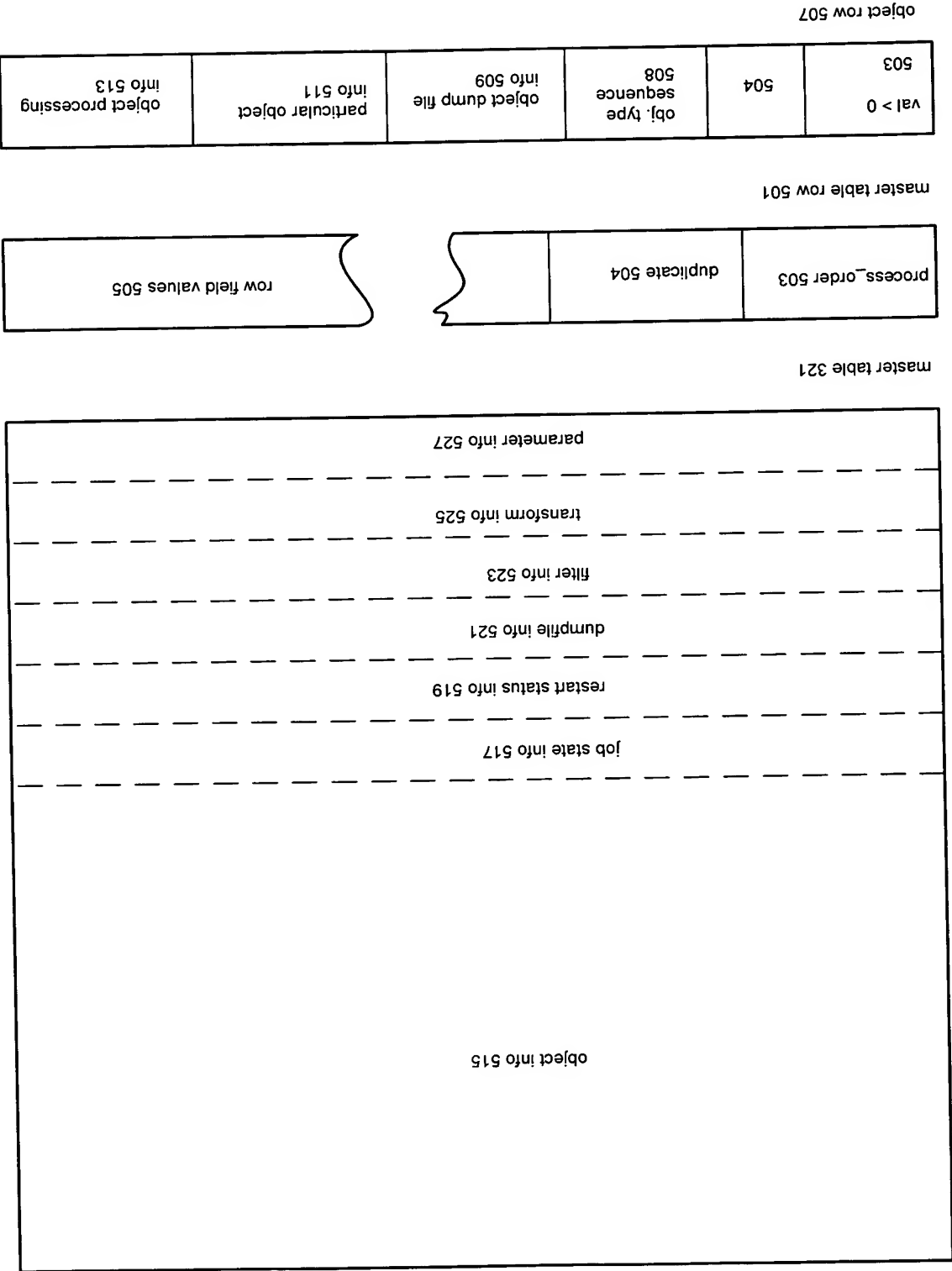


Fig. 5

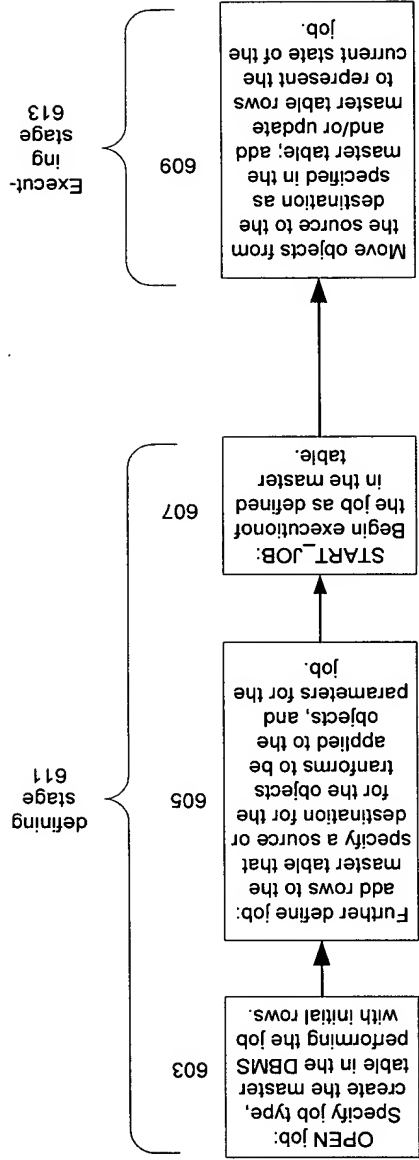


Fig. 6



725

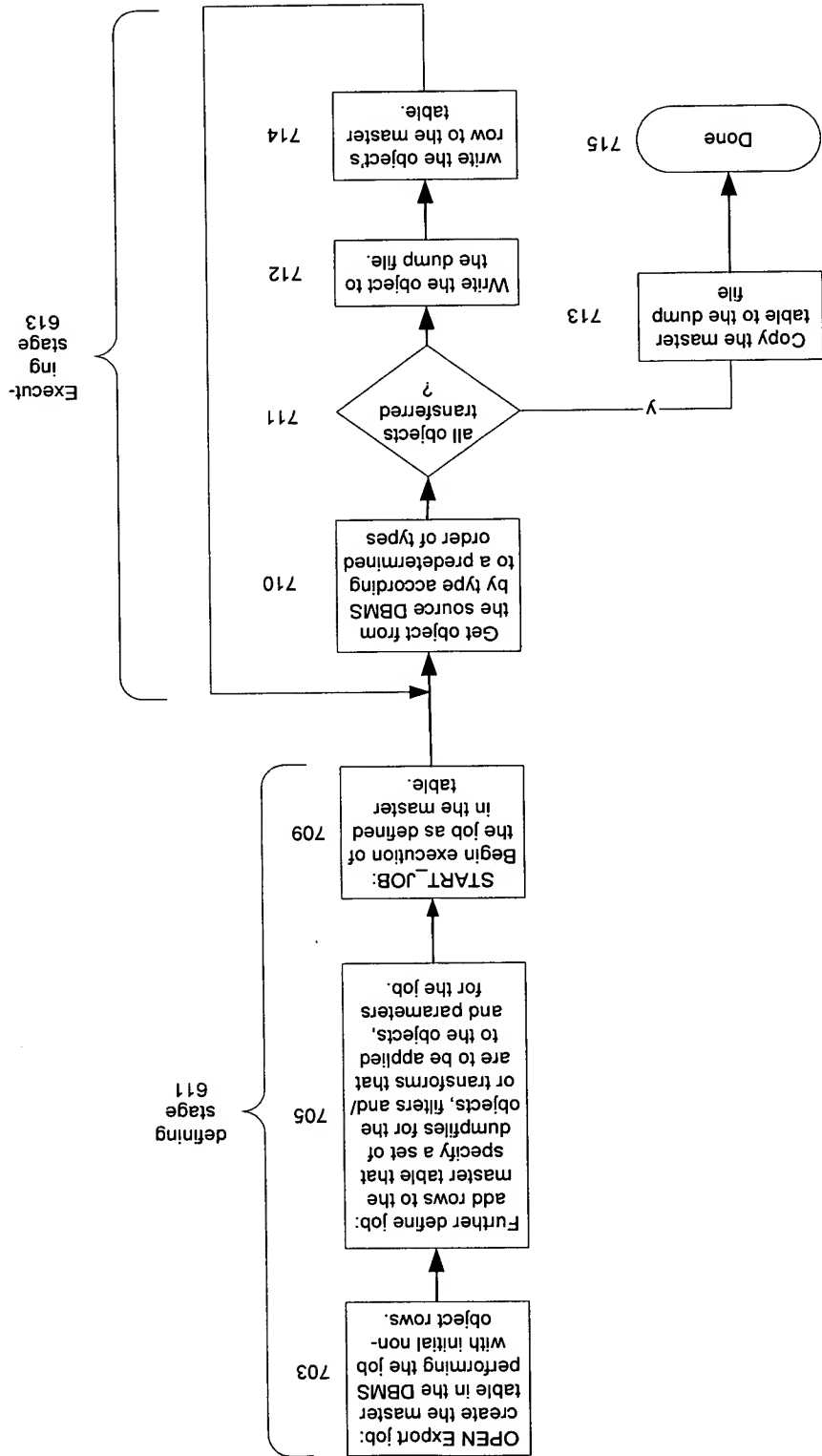


Fig. 7

EXPORT 701

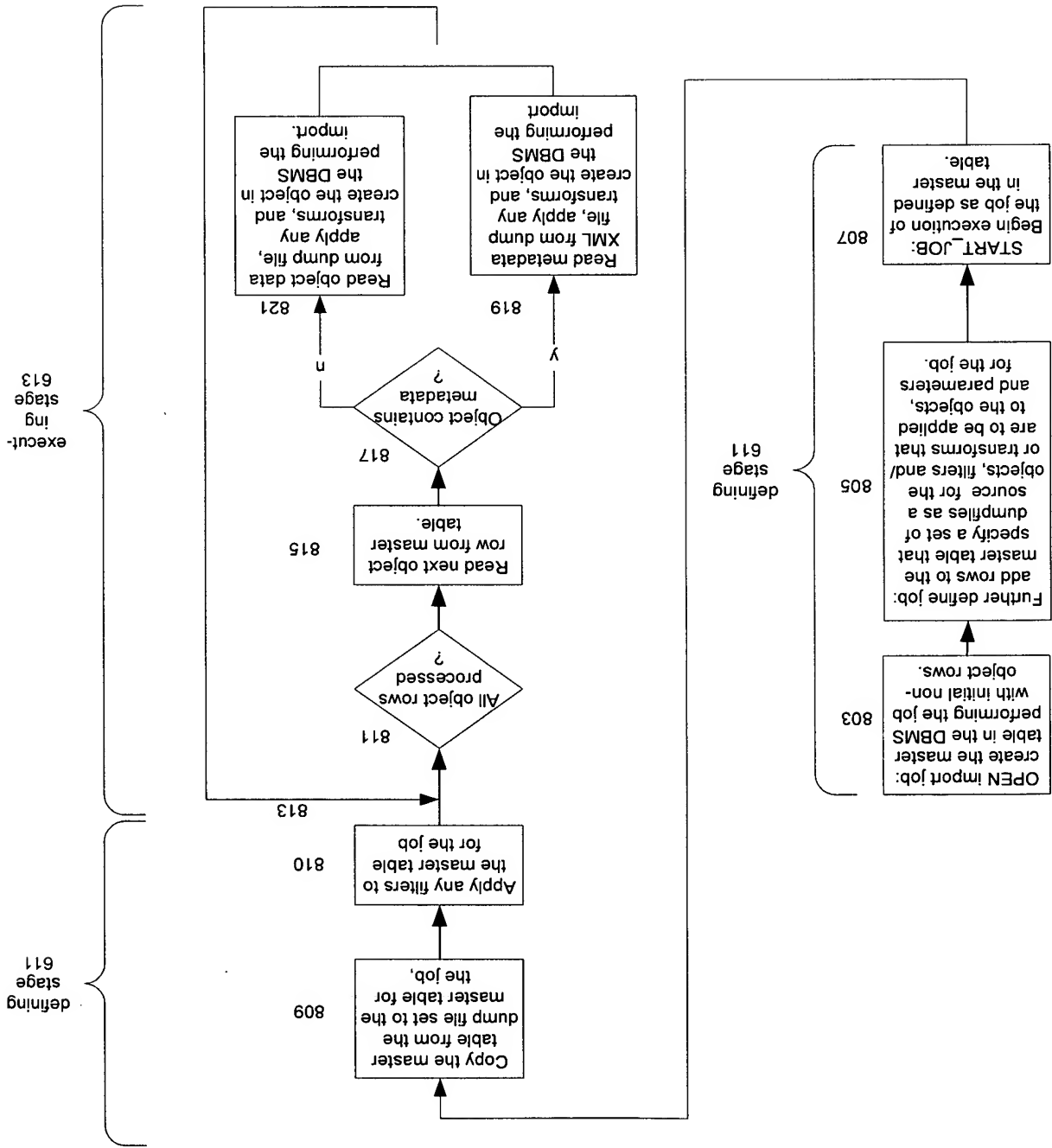


Fig. 8

IMPORT from dump file
set 801

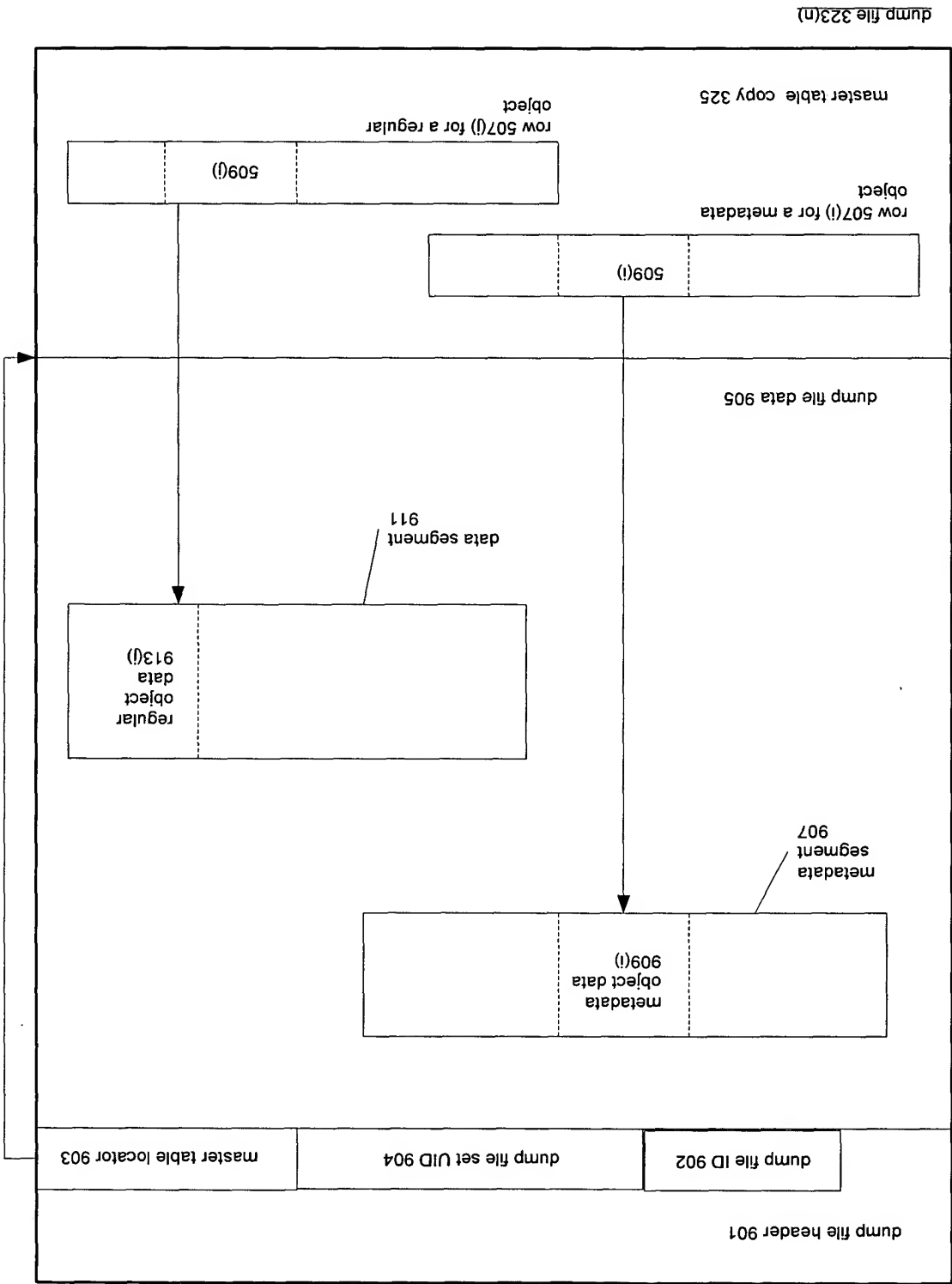


Fig. 9

dump file 323(n)

Column Name	Datatype	Meaning
PROCESS ORDER	NUMBER	If >0, corresponding row describes an object processed by the job. The value of PROCESS_ORDER reflects the order in which the corresponding object must be imported in relation to other objects.
	NUMBER	If <0, corresponding row describes an attribute of the job. The value of PROCESS_ORDER identifies which job attribute is being defined.
503		-71 is reserved as a pseudo OBJECT row to reference the Master Table at Export time.
		-72 is reserved as a pseudo OBJECT row to reference the Master Table in Import/SQL file operations.
504	NUMBER	When multiple rows are needed to represent an object, Duplicates are used to define the order for dump. The first row will have Duplicates set to 0 and succeeding rows will use 1 and up. If only a single row is used to identify an object, Duplicates will be set to 0. Multiple rows are used to identify all of the file pieces belonging to a partition.
	NUMBER	The identification of the data representing this object in the dump set. Duplicate rows for the TABLE_DATA object row will specify the additional file pieces used for a table partition. The identification requires four pieces of information: The numeric id used to represent the file in the dump file set. The block position of the data within the file. The length of the data in bytes. The total number of blocks allocated for the object.
1001	NUMBER	DUMP_POSITION
	NUMBER	DUMP_LENGTH
	NUMBER	DUMP_ALLOCATION
	NUMBER	COMPLETED_ROWS
513	NUMBER	ERROR_COUNT
	NUMBER	ELAPSED_TIME
	NUMBER	OBJECT_TYPE_PATH
	VARCHAR(200)	Metadata API path name for object as defined in the DATABASE_EXPORT OBJECTS view.
1005	OBJECT_PATH_SEONO	NUMBER
	OBJECT_PATH_SEONO	Sequence number for object type. This field orders object types for import.
	OBJECT_TYPE	VARCHAR(30)
	OBJECT_NAME	VARCHAR(500)
	OBJECT_NAME	Name of the object in the dump file set. For synonyms and Java objects this may be the short name for the object.
	LONG_OBJECT_NAME	VARCHAR(4000)
	OBJECT_SCHEMA	VARCHAR(230)
511	ORIGINAL_OBJECT	VARCHAR(230)
	ORIGINAL_OBJECT	Schema owning the referenced object prior to any schema renames. NULL if object is not a schema object.
	OBJECT_SCHEMA	VARCHAR(230)
	OBJECT_SCHEMA	Schema owning the referenced object. NULL if object is not a schema object. For import, this schema may be changed due to schema renaming.
	OBJECT_SCHEMA	Schema owning the referenced object prior to any schema renames. NULL if object is not a schema object.
	FLAGS	NUMBER
	FLAGS	Object flags. X00000001 Unused. X00000002 has nested tables (valid only for TABLE objects). X00000004 table is being repartitioned on import and partition cannot be loaded in parallel (valid only for TABLE objects). X00000008 Unused. X00000010 table uses row-level security. X00000020 table is a table used in a domain index. X00000040 object is partitioned. X00000080 table is a used as a nested table.
object row 507A		

Fig. 10

513	1101	COMPLETION TIME	DATE	(Import only) Timestamp entered when Import attempt to define the object. This timestamp may be used on restart to determine whether Import defined the object or whether the object was preexisting in the database before Import ran.	
		OBJECT TABLESPACE	VARCHAR2(30)	Tablespace used to store the object if the object requires storage.	
511	1103	SIZE ESTIMATE	NUMBER	Estimated size of TABLE DATA object in bytes. During Import, DUMP LENGTH is a more accurate measure of size.	
		OBJECT ROW	NUMBER	Index into the XML document for the current object. This field is used when multiple objects are defined in a single XML document. This column is not used for TABLE DATA objects.	
513	1103	IN PROGRESS	CHAR(1)	(Used in Import and Network only) If "Y", indicates that the creation of the current object was partially defined and may require special cleanup on restart.	
		PARTITION NAME	VARCHAR2(30)	For TABLE DATA objects, identifies the (sub)partition that contains the set of rows. Set to NULL, otherwise.	
511		PROCESSING_STATE	CHAR(1)	U -> Object has been read from source database, but its state is unknown (i.e., "in progress") in the target database. R -> Object definition has been completely retrieved from source database. For Export, object has also been written to dump file set. D -> Object definition has not been retrieved from source database.	
		PROCESSING_STATUS	CHAR(1)	C -> Object has been successfully processed up to the point indicated by PROCESSING_STATUS. (Fast reload of domain indexes is only supported if the parent table has this status). I -> Object has been processed up to the point indicated by PROCESS_STATUS with warning messages (e.g., not all rows processed for a TABLE DATA object). ID -> (Import, Network only) Object already exists in target database and TABLE_EXISTS_ACTION was set to SKIP or APPEND. E -> A hard error has been detected in processing this object.	
513		BASE OBJECT TYPE	VARCHAR2(30)	For dependent objects, identifies the parent of the object.	
		BASE OBJECT NAME	VARCHAR2(30)	NULL for top level objects.	
1104		BASE OBJECT SCHEMA	VARCHAR2(30)		
		PARALLELIZATION	NUMBER	For TABLE DATA objects, specifies the maximum parallelization recommended for the partition/table by the data layer. It may be decreased by the scheduler in the MCP during assignment to a worker or Import if the parallelization cannot be supported by the job.	
511	1105	UNLOAD METHOD	NUMBER	For TABLE DATA objects, specifies unload method. 1 -> Direct Path or Network 2 -> External Table 4 -> Either method is acceptable -1 -> Neither method is acceptable	
		GRANULES	NUMBER	Number of data granules within a file piece. A granule is unit of allocation inside of external table processing.	
object low 507B	1111	SCN	NUMBER	Identifies the consistent SCN for TABLE and TABLE DATA objects when TABLE_CONSISTENCY is set or FLASHBACK is set or safe scn is set.	

Fig. 11

511	object	1201	DOMAIN INDEX	VARCHAR2(30)	If object is a secondary object, identifies the domain index that created the object, NULL otherwise.
			DOMAIN INDEX	VARCHAR2(30)	
			SCHEMA	VARCHAR2(30)	
			GRANTOR	VARCHAR2(30)	For grants, the schema that originally created the grant.
			XML, CLOB	CLOB	For Table objects, the XML representation of the metadata to recreate the object. Also used to load data for Table data objects within the table.
		1202			
		1203			

503	504	1207	Column Name	Datatype	Meaning
			PROCESS_ORDER	NUMBER	-1 for Export jobs, -2 for Import and SQL*File jobs.
			DUPLICATE	NUMBER	0
			OBJECT_NAME	VARCHAR2(500)	Name of the job (should be the same as the table name)
			OBJECT_LONG_NAME	VARCHAR2(4000)	Name of the job (should be the same as the table name)
			USER_NAME	VARCHAR2(30)	Username who initiated operation. (This should be same name as the owner of the Master Table.)
			OPERATION	VARCHAR2(30)	One of the following values: EXPORT, IMPORT, SQL*FILE
			JOB_MODE	VARCHAR2(30)	One of the following values: FULL, SCHEMA, TABLE, TABLESPACE, TRANSPORTABLE
			REMOTE_LINK	VARCHAR2(4000)	Network link used for job (Null if none).
			VERSION	NUMBER	Version control for Master Table format.
1213			DB_VERSION	VARCHAR2(30)	The version of the database object for this operation.
			STATE	VARCHAR2(30)	One of the following values: DEFINING, EXECUTING, IDLING, STOPPING, STOPPED, WAITING, COMPLETING, COMPLETED.
			PHASE	NUMBER	The sequence position in the tasks to accomplish the job. The meaning of each number is dependent upon the operation being performed.
			GUID	RAW(16)	Uniquely unique identifier for describing the job. The GUID is used to label files as belonging to the job.
1215			START_TIME	DATE	Datetime when the job was OPENED.
			BLOCK_SIZE	NUMBER	Block size used in job. This is also defined in the header of each dump file.
			METADATA_BUFFER_SIZE	NUMBER	number of blocks in a kafd buffer for processing metadata
			DATA_BUFFER_SIZE	NUMBER	number of blocks in a kafd buffer for processing data
1217			DEGREE	NUMBER	Number of worker processes that can be active at any time
1219			ERROR_COUNT	NUMBER	Number of errors reported for job

job state row 1205A (517)

Fig. 12

1301

TOTAL_BYTES	NUMBER	For Export, estimated size of data in job. For Import, size of data in job to be loaded.
PLATFORM	VARCHAR2(100)	Platform used for the Export/Import
INSTANCE	VARCHAR2(15)	Instance name that job is running upon (RAC only)
ABORT_STEP	NUMBER	Process_order number of Object row that will cause the job to abort. For testing purposes only.
SCN	NUMBER	The System Change Number passed to Logical Standby for all DDL creations. This is *not* the SCN used for TABLE DATA OBJECT rows; they each have their own.
OBJECT_TYPE_PATH	VARCHAR2(200)	Final termination message for job
OLD_VALUE	VARCHAR2(4000)	This is the opaque "cookie" returned to us by dbms_internal safe_scn.read_scn during export and handed in during import & network. Used by Logical Standby / Streams
FLAGS	NUMBER	X00000001 Job is interesting for either streams or logical standby and the SCNs for tables need to be supplied via the safe_scn package.

job state row 1205B (517)

Column Name	Datatype	Meaning
PROCESS_ORDER	NUMBER	-3 for Export jobs.
DUPLICATE	NUMBER	0
SEED	NUMBER	Highest value of PROCESS_ORDER in Master Table. Originally set to 1 when Master Table is initially created.

MAX_PROCESS_ORDER row 1303 (517)

504

1307

Column Name	Datatype	Meaning
PROCESS_ORDER	NUMBER	-5 for Export jobs. -6 for Import and SQL File jobs.
DUPLICATE	NUMBER	The sequence number for each object type
OBJECT_TYPE_PATH	VARCHAR2(200)	Path of object type whose processing has completed.
OBJECT_PATH_SEQNO	NUMBER	Sequence number for object type. This field orders object types for import.
COMPLETION_TIME	DATE	Time when processing of object was completed.
COMPLETED_ROWS	NUMBER	The number of objects of current object path have been processed.

TYPE_COMPLETION row 1305
(517)

Fig. 13

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-21 for Export jobs. -22 for Import and SQL File jobs.
504	DUPLICATE	NUMBER	Internal number assigned to each file as it is specified in export time. File references by OBJECT rows always use this number rather than the file name.
1403	FILE_TYPE	NUMBER	0 if disk file.
1405	USER_DIRECTORY	VARCHAR2(4000)	Directory path used for dumpfile.
	USER_FILE_NAME	VARCHAR2(4000)	Original file name specified by user
	FILE_NAME	VARCHAR2(4000)	Fully resolved name (including path information) for file.
	FILE_MAX_SIZE	NUMBER	Maximum size for the file. 0 if file is extendable.

FILE row 1401 (521)

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-23 for Export jobs. -24 for Import and SQL File jobs.
504	DUPLICATE	NUMBER	Ordinal position for when this ADD_FILE was specified (used to maintain round robin ordering between wildcarded names).
1411	FILE_NAME	VARCHAR2(4000)	Template for filename including substitution variables.
1413	FILE_MAX_SIZE	NUMBER	Maximum size for the file. 0 if file is extendable.
1415	SEED	NUMBER	Last value used for resolving substitution variables. Each wildcard specification needs a unique number since ADD_FILES can come in after the job has started.
1417	LAST_FILE	NUMBER	File number of last file resolved from this wildcard string. This column is used to identify where we are in the round robin expansion of wildcarded names.

WILDCARD_FILE row 1409 (521)

Fig. 14

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-41 for Export jobs. -42 for Import and SQL_* File jobs.
504	DUPLICATE	NUMBER	Internal ID for the worker process.
1503	PROCESS_NAME	VARCHAR2(30)	Process name for the worker process.
1505	OBJECT_NUMBER	NUMBER	PROCESS_ORDER value for the object being processed by the worker process.
	OBJECT_SCHEMA	VARCHAR2(30)	The schema of the object being processed. Null if not in EXECUTING state or processing a non-schema object.
	OBJECT_NAME	VARCHAR2(500)	The name of the object being processed. Null if not in EXECUTING state or processing an unnamed object.
	OBJECT_LONG_NAME	VARCHAR2(4000)	The name of the object being processed. Null if not in EXECUTING state or processing an unnamed object.
	OBJECT_TYPE_PATH	VARCHAR2(200)	The object type pathname of the object being processed. Null if not in EXECUTING state.
1507	PARTITION_NAME	VARCHAR2(30)	The name of the partition of the object being processed. Only object within a partitioned table. Null otherwise.
	TOTAL_BYTES	NUMBER	Number of bytes within a TABLE DATA object. On EXPORT, number may be an estimate. NULL, if no estimate is available on object or if work is not processing a TABLE DATA object.
	COMPLETED_ROWS	NUMBER	Number of data rows written or read for current TABLE DATA object. For other objects, the number of objects of current object path have been processed.
	LAST_UPDATE	DATE	Time of last update for Worker row. Used to approximate the time of a crash during restart.
	WORK_ITEM	VARCHAR2(30)	Current work item being processed by Worker. NULL, if worker is idle. Possible values are UNLOAD METADATA, UNLOAD DATA, LOAD METADATA, LOAD DATA, ESTIMATE JOB, SQL FILE JOB, RELEASE FILES, and EXITING.
1509	STATE	VARCHAR2(30)	One of the following values: WORK, WAITING, FILE_WAITING, EXECUTING, MASTER. WORK_WAITING -- worker is waiting for work from the Master Control Process. FILE_WAITING -- worker is waiting for a file space from the Master Control Process. EXECUTING -- worker is processing one or more objects. See OBJECT_NUMBER and OBJECT_ROWID columns for details. MASTER -- Worker Process is either saving or restoring the Master Table to/from the dump file set.
	METADATA_IO	NUMBER	Amount of Metadata written to the dump file (for export) or read from the dump file (for Import) or transferred over the link since last restart for this Worker.
	DATA_IO	NUMBER	Amount of table data written to the dump file (for Export) or read from the dump file (for Import) or transferred over the link since last restart for this Worker.
	CUMULATIVE_TIME	NUMBER	The amount of time that this worker process has spent actively processing the job.

WORKER row 1501 (517)

Fig. 15

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-7 for Export jobs. -8 for Import and SQL_*File jobs.
504	DUPLICATE	NUMBER	0
1603	METADATA_IO	NUMBER	Amount of Metadata written to the dump file (for export) or read from the dump file (for Import) or transferred over the link (for Import over a network).
	DATA_IO	NUMBER	Amount of table data written to the dump file (for Export) or read from the dump file (for Import) or transferred over the link (for Import over a network).
	TOTAL_BYTES	NUMBER	An estimate of the total size of the job. For Import from files, the total size of the requested data within the dump file.
	CUMULATIVE_TIME	NUMBER	Sum of the amount of time that each worker process has spent actively processing the job in hundredths of a second. If 3 workers were active for an hour, this column would contain 1080000.

RESTART_STATUS row 1601 (517)

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-9 for Export jobs. -10 for Import jobs.
504	DUPLICATE	NUMBER	Unique key assigned to each (re)start of the job. The first start of a job will be represented by DUPLICATE 0.
1605	METADATA_IO	NUMBER	Bytes of Metadata written to the dump file (for export) or read from the dump file (for Import) or transferred over the link (for Network).
	DATA_IO	NUMBER	Bytes of table data written to the dump file (for Export) or read from the dump file (for Import) or transferred over the link (for Network).
	TOTAL_BYTES	NUMBER	For Export and Network, an estimate of the total size of the Operation (if available). For Import, the total size of the requested data within the dump file.
	ERROR_COUNT	NUMBER	Number of errors reported for job
1606	CUMULATIVE_TIME	NUMBER	Sum of the amount of time that each worker process has spent actively processing the job. If 3 workers were active for an hour, this column would contain 1080000. Using DATA_IO, TOTAL_BYTES, CUMULATIVE_TIME, and JOB_STATE_DEGREE, an estimate of the remaining time for the job will be possible.
1607	OBJECT_TYPE_PATH	VARCHAR2(200)	Final termination message from previous job incarnation.
	ELAPSED_TIME	NUMBER	Amount of time that elapsed between the restart and the latest timestamp found on the next restart in 100ths of seconds
	START_TIME	DATE	Starting time for previous incarnation of job.
	PLATFORM	VARCHAR2(100)	Platform used during previous incarnation of job.
	INSTANCE	VARCHAR2(15)	Instance name that job incarnation ran upon (RAC only)
	DEGREE	NUMBER	Degree of parallelism at end of previous incarnation of job.

RESTART row 1605 (519)

Fig. 16

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-51 for Export jobs. -52 for Import and SQL_File jobs.
504	DUPLICATE	NUMBER	Internal Id for distinguishing Data Filters
1703 {	NAME	VARCHAR2(30)	Name of filter.
1705	VALUE_T	VARCHAR2(4000)	Definition of a text filter.
1707	VALUE_N	NUMBER	Definition of a numerical filter.
	OBJECT_SCHEMA	VARCHAR2(30)	Schema of table to which filter applies
	OBJECT_NAME	VARCHAR2(30)	Table for which filter applies

DATA_FILTER row 1701 (523)

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-53 for Export jobs. -54 for Import and SQL_File jobs.
504	DUPLICATE	NUMBER	Internal Id for distinguishing Metadata Filters
1711 {	NAME	VARCHAR2(30)	Name of filter.
1713	VALUE_T	VARCHAR2(4000)	Definition of filter
	OBJECT_TYPE_PATH	VARCHAR2(200)	Object class affected by the filter. If NULL, the filter affects all object classes.

METADATA_FILTER row 1709 (523)

	Column Name	Datatype	Meaning
503	PROCESS_ORDER	NUMBER	-57 for Export and Estimate jobs -58 for Import, Network and SQL_File jobs.
504	DUPLICATE	NUMBER	Internal Id for distinguishing Metadata transforms
1717 {	NAME	VARCHAR2(30)	Name of Remap or Transform. Legal name is: SEGMENT, ATTRIBUTES.
1719	OLD_VALUE	VARCHAR2(4000)	Specifies value to be remapped for remaps. Null otherwise.
1721	VALUE_T	VARCHAR2(4000)	Specifies new value for remaps. For transforms, specifies the value.
1723	VALUE_N	NUMBER	Definition of a numerical filter.
	OBJECT_TYPE	VARCHAR2(30)	Object class affected by the remap or transform. If NULL, the remap or transform affects all applicable object classes.

METADATA_TRANSFORM row 1715 (525)

Fig. 17

Column Name	Datatype	Meaning
PROCESS_ORDER	NUMBER	-59 for Export jobs. -60 for Import and SQL_File jobs.
DUPLICATE	NUMBER	Internal Id for distinguishing Parameters
NAME	VARCHAR2(30)	Name of PARAMETER.
IS_DEFAULT	NUMBER	If non-zero, parameter setting was not supplied by the client.
VALUE_T	VARCHAR2(4000)	Specifies the value set for a text parameter.
VALUE_N	NUMBER	Definition of a numerical parameter.

PARAMETER row 1801 (527)

Column Name	Datatype	Meaning
PROCESS_ORDER	NUMBER	-73 for Export jobs. -74 for Import and SQL_File jobs.
DUPLICATE	NUMBER	0
VALUE_T	VARCHAR2(4000)	A DDL command to reestablish the NLS settings for the job.

NLS_PARAMS row 1805 (527)

Fig. 18

```

DECLARE
    handle      NUMBER;

BEGIN
1903     handle := DBMS_DATAPUMP.OPEN( 'EXPORT', 'FULL', NULL,
                                     'MYDEMOVE_EXPORT');
1905     { DBMS_DATAPUMP.ADD_FILE(handle, 'file1.dmp',
                                     'MY_DIR1', '600M');
          DBMS_DATAPUMP.ADD_FILE(handle, 'file2.dmp',
                                     'MY_DIR2', '600M');
          DBMS_DATAPUMP.ADD_FILE(handle, 'file3.dmp',
                                     'MY_DIR3', '600M');
1907     DBMS_DATAPUMP.METADATA_FILTER(handle, 'SCHEMA_EXPR',
                                     '!= ''BLAKE''');
1909     DBMS_DATAPUMP.SET_PARALLEL(handle, 3);
1911     DBMS_DATAPUMP.START_JOB(handle);
1913     DBMS_DATAPUMP.DETACH(handle);

END;

```

1901

```

DECLARE
    handle      NUMBER;

BEGIN
1917     handle := DBMS_DATAPUMP.ATTACH ('MYDEMOVE_EXPORT');
1919     DBMS_DATAPUMP.STOP_JOB(handle, 1, 1, 0);

END;

```

1915

```

DECLARE
    handle      NUMBER;

BEGIN
1923     handle := DBMS_DATAPUMP.ATTACH ('MYDEMOVE_EXPORT');
1925     { DBMS_DATAPUMP.ADD_FILE(handle, 'file4.dmp',
                                     'MY_DIR4', '600M');
          DBMS_DATAPUMP.ADD_FILE(handle, 'file5.dmp',
                                     'MY_DIR5', '600M');

1927     DBMS_DATAPUMP.SET_PARALLEL(handle, 5);
1929     DBMS_DATAPUMP.START_JOB(handle);
1931     DBMS_DATAPUMP.DETACH(handle);

END;

```

1921

Fig. 19

```

BEGIN
  2003 handle := DBMS_DATAPUMP.OPEN( 'IMPORT', 'FULL', NULL,
                                     'MYDEMOVE_IMP' );

  2005 DBMS_DATAPUMP.SET_PARAMETER(handle, 'KEEP_MASTER', 0);
  2007 {
    DBMS_DATAPUMP.ADD_FILE(handle, 'file1.dmp',
                              'MY_NEWDIR1', '600M');
    DBMS_DATAPUMP.ADD_FILE(handle, 'file2.dmp',
                              'MY_NEWDIR2', '600M');
    DBMS_DATAPUMP.ADD_FILE(handle, 'file3.dmp',
                              'MY_NEWDIR3', '600M');
    DBMS_DATAPUMP.ADD_FILE(handle, 'file4.dmp',
                              'MY_NEWDIR4', '600M');
    DBMS_DATAPUMP.ADD_FILE(handle, 'file5.dmp',
                              'MY_NEWDIR5', '600M');

  2009 DBMS_DATAPUMP.METADATA_REMAP(handle, 'MAP_TABLESPACE',
                                     'USER1', 'NEWUSER1');
  2011 DBMS_DATAPUMP.SET_PARALLEL(handle, 4);
  2013 DBMS_DATAPUMP.START_JOB(handle);
  2015 DBMS_DATAPUMP.DETACH(handle);
END;

```

2001

Fig. 20

Table 1: APIs and Job states

API	Valid Job states for API	Description
ADD_FILE 2103	Defining Executing ^a Idling ^a Stop pending	Specifies a file for the dump file set, or the location of the log file or the location of the file to receive the SQL_FILE output.
ATTACH 2105	Defining Executing Idling Stop pending Stopped Completing Completed	Allows a user session to monitor a job
DATA_FILTER 2107	Defining	Restricts data processed by a job
DETACH 2109	Defining Executing	Disconnects a user session from a job
GET_STATUS 2111	Idling	Obtains the status of a job
LOG_ENTRY 2113	Stop pending Completing	Adds an entry to the log file
METADATA_FILTER 2115	Defining	Restricts metadata processed by a job
METADATA_REMAP 2117	Defining	Remaps metadata processed by a job
2119 METADATA_TRANSFORM	Defining	Alters metadata processed by a job
OPEN 2121	Undefined	Creates a new job
SET_PARALLEL 2123	Defining Executing Idling Stop pending	Specifies parallelism for a job
SET_PARAMETER 2125	Defining	Alters default processing by a job
START_JOB 2127	Defining Idling	Begins/resumes executing a job
STOP_JOB 2129	Defining Executing Idling	Initiates orderly shutdown of a job
	Stop pending	

a. Export jobs only

Fig. 21

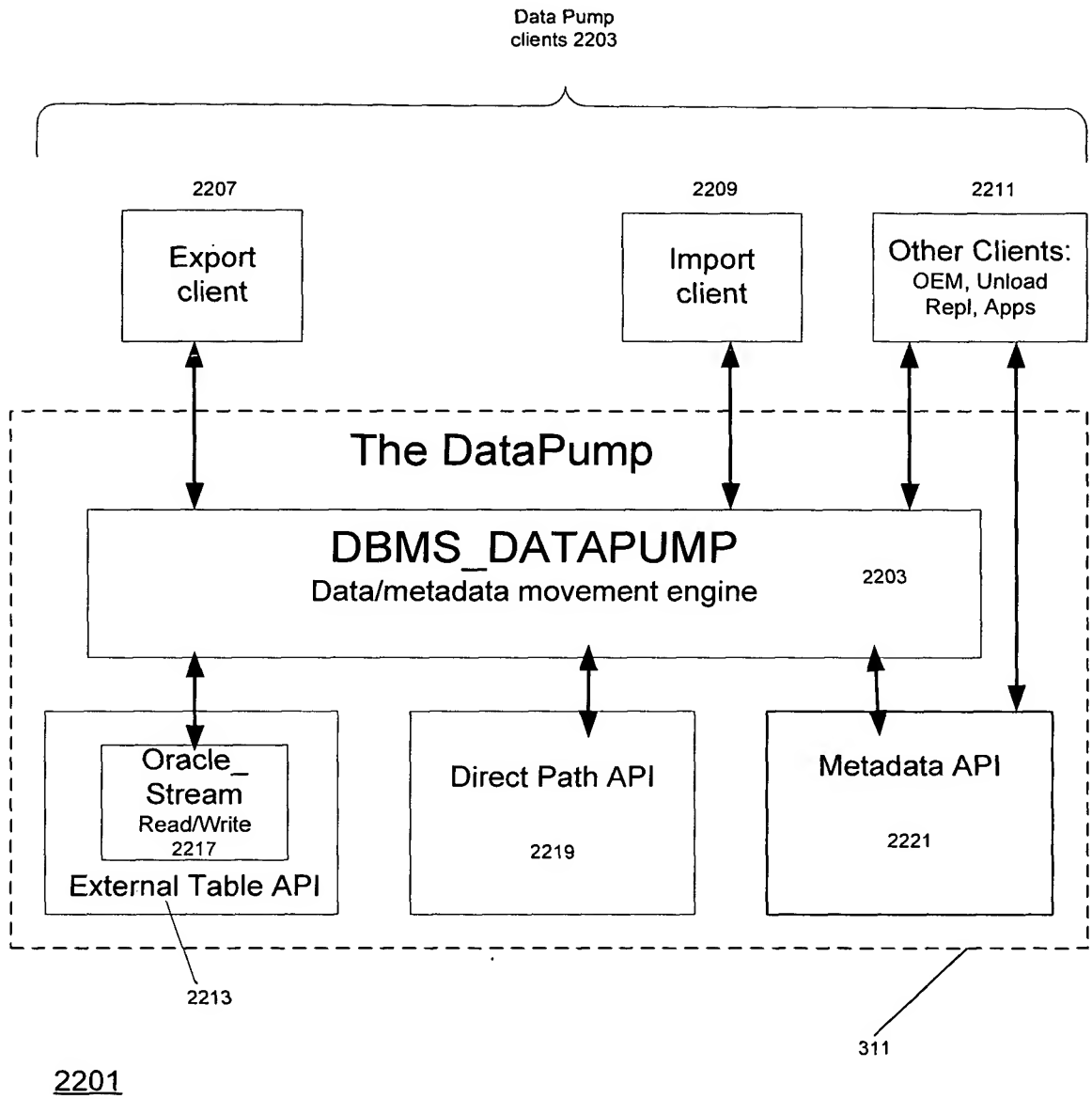


Fig. 22

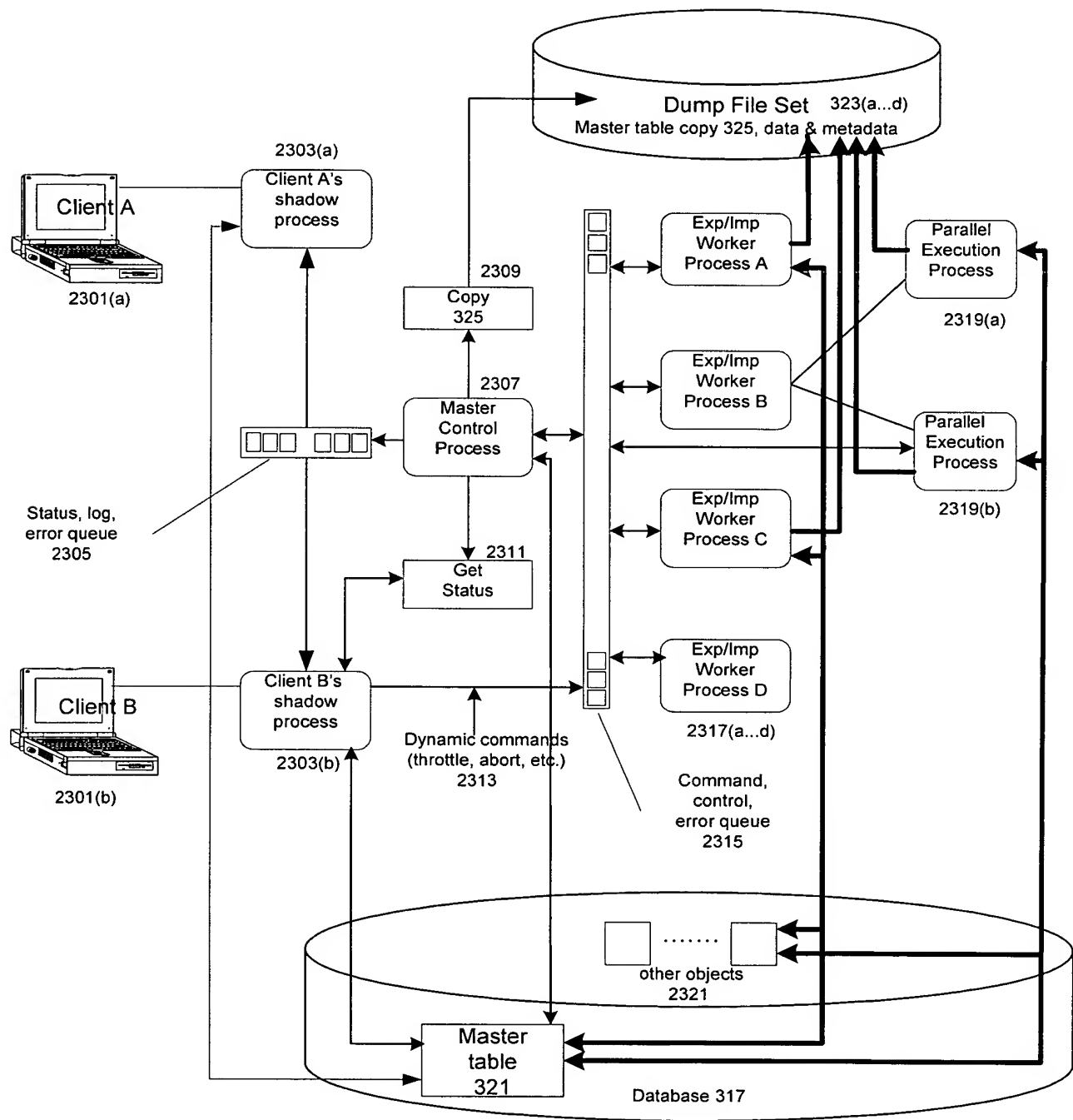


Fig. 23

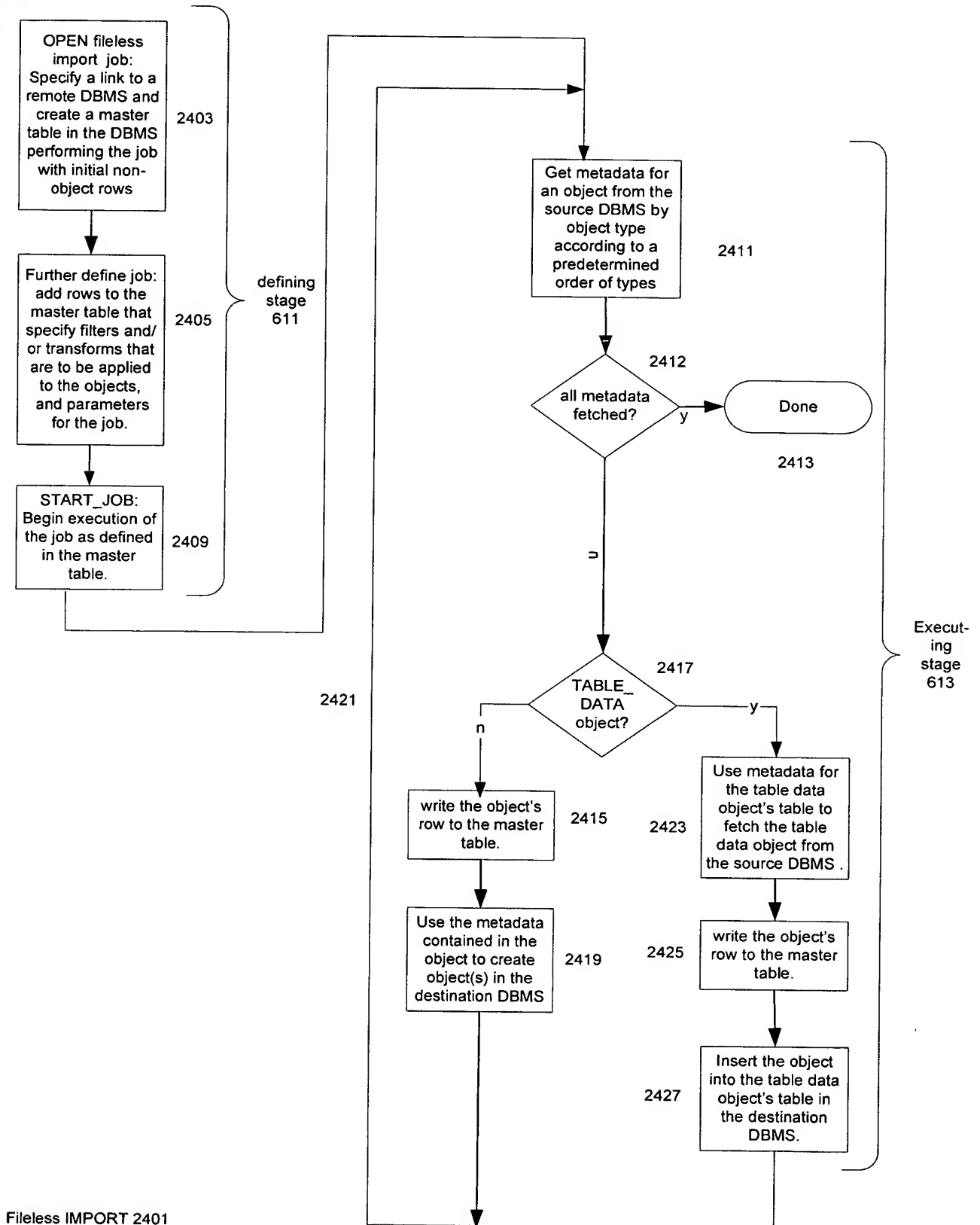


Fig. 24